Amendments to the Claims:

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

(Currently Amended) A position measuring apparatus for surgery comprising:

a position indicating means for indicating a <u>two-axial setting-position setting</u> position and a <u>two-plane setting-direction setting direction</u> of a surgical tool, said position indicating means <u>comprising including</u> a pair of laser beam emitting means for emitting <u>two respective laser beams scanned to form two planes, respectively,</u> that intersect in a surgical field, <u>where said two-axial setting-position is indicated by</u> an intersection of said laser beams on a <u>surface of a surgical object;</u>

a three-dimensional position measuring means for measuring a position and a direction of said surgical field and also the <u>setting-position</u> setting position and the <u>setting-direction</u> setting direction of said surgical tool; and

a control unit for controlling operation of said position indicating means and said three-dimensional position measuring means,

wherein said position indicating means and said three-dimensional position measuring means being fixed on a common base, so that relative positional relationship therebetween is constant; and

wherein said <u>setting-direction</u> <u>setting direction</u> for said surgical tool is given in a form of an intersection line <u>formed by an intersecting said two planes which are formed by said two respective laser beams.</u>

2. (Cancelled)

- 3. (Previously Presented) A position measuring apparatus, as described in the claim 1, wherein said position measuring apparatus is held on a stand, which is changeable in its position and direction by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.
- 4. (Previously Presented) A position measuring apparatus, as described in the claim 1, wherein said position measuring apparatus is held by an arm, the arm extending from a ceiling and being changeable in a position and a direction by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.
- 5. (Previously Presented) A position measuring apparatus, as described in the claim 1, wherein said position measuring apparatus is used for indicating a position and a direction of said surgical tool during a surgical operation.

6. - 13. (Cancelled)

14. (Currently Amended) A position measuring apparatus, as described in the claim 1, wherein said surgical tool including plural line indicia <u>marked thereon</u>, serving as reference lines for parallelly-aligning scanning lines of said laser beams impinging onto said surgical tool to <u>parallelly-align with said line indicia</u>, as a guide to

effect said setting-direction setting direction of said surgical tool.

15. (Currently Amended) A position measuring apparatus for surgery comprising:

a position indicating means for guiding a two-axial setting-position setting position—and a setting-orientation setting orientation—of a surgical tool, said position indicating means comprising-including a pair of laser beam emitting means for emitting respective laser beams that intersect in a surgical field, where said two-axial setting-position is indicated by an intersection of said laser beams on a surface of a surgical object;

a three-dimensional position measuring means for measuring a position and an orientation of said surgical field and also the <u>setting-position setting position</u> and the setting-orientation <u>setting orientation</u> of said surgical tool; and

a control unit for controlling operation of said position indicating means and said three-dimensional position measuring means,

wherein said position indicating means and said three-dimensional position measuring means being fixed on a common base, so that relative positional relationship therebetween is constant; and

wherein said <u>setting-orientation</u> <u>setting orientation</u> for said surgical tool is given in a form of an intersection line <u>formed by an intersecting said two planes</u> which are formed by said two respective laser beams.

16. (Previously Presented) A position measuring apparatus, as described in the claim 15, wherein said position measuring apparatus is held on a stand, which is

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changeable in its position and orientation by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.

- 17. (Previously Presented) A position measuring apparatus, as described in the claim 15, wherein said position measuring apparatus is held by an arm, the arm extending from a ceiling and being changeable in a position and an orientation by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.
- 18. (Previously Presented) A position measuring apparatus, as described in the claim 15, wherein said position measuring apparatus is used for indicating a position and an orientation of said surgical tool during a surgical operation.
- 19. (Currently Amended) A position measuring apparatus, as described in the claim 15, wherein said surgical tool including plural line indicia <u>marked thereon</u> serving as reference lines for parallelly-aligning scanning lines of said laser beams impinging onto said surgical tool to <u>parallely-align with said line indicia</u>, as a guide to effect said <u>setting-orientation</u> setting <u>orientation</u> of said surgical tool.
- 20. (Currently Amended) A position measuring apparatus for surgery comprising:

a position indicating means for guiding an guiding a two-axial intersection point as a setting-position setting position and an two-plane intersection line as a

setting-orientation setting orientation of a surgical tool, said position indicating means comprising including a pair of laser beam emitting means for emitting two respective laser beams scanned to form two planes that intersect in a surgical field, where said two-axial intersection point is indicated by an intersection of said laser beams on a surface of a surgical object;

a three-dimensional position measuring means for measuring a position and an orientation of said surgical field and also the <u>setting-position</u> setting position and the <u>setting-orientation</u> setting orientation of said surgical tool; and

a control unit for controlling operation of said position indicating means and said three-dimensional position measuring means,

wherein said position indicating means and said three-dimensional position measuring means being fixed on a common base, so that relative positional relationship therebetween is constant, and

wherein said two-plane intersecting line is given by an intersecting said two
planes which are formed by said two respective laser beams.

- 21. (Previously Presented) A position measuring apparatus, as described in the claim 20, wherein said position measuring apparatus is held on a stand, which is changeable in its position and orientation by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.
- 22. (Previously Presented) A position measuring apparatus, as described in the claim 20, wherein said position measuring apparatus is held by an arm, the arm

extending from a ceiling and being changeable in a position and an orientation by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.

23. (Canceled)

24. (Currently Amended) A position measuring apparatus, as described in the claim 20, wherein said surgical tool including plural line indicia <u>marked thereon</u>, serving as reference lines for parallelly-aligning scanning lines of said laser beams impinging onto said surgical tool to <u>parallelly-align with said line indicia</u>, as a guide to effect said <u>setting-orientation</u> of said surgical tool.